

# STD-V

## Time & Temperature

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C. What is the time

1.  $1\frac{1}{2}$  hours after 11:50 a.m.

Given time in the clock = 11:50 a.m. = 1150 hours

1 hour = 60 minutes

$\frac{1}{2}$  hour =  $\frac{60}{2}$  minutes = 30 minutes.

Required time  $1\frac{1}{2}$  hours after 1150 hours

= 1150 hours  $\xrightarrow{+1\text{ hour}}$  1250 hours  $\xrightarrow{+30\text{ minutes}}$  1320 hours

= 1320 hours = 1:20 p.m.

Ans The required time will be 1:20 p.m.  $1\frac{1}{2}$  hours after 11:50 a.m.

2. 5 hours 15 minutes before 3:30 p.m.

Given time in the clock = 3:30 p.m. = 1530 hours

Required time 5 hours 15 minutes before 3:30 p.m.

$\Rightarrow 3:30\text{ p.m.} = 1530\text{ hours} \xrightarrow{-15\text{ minutes}} 1515\text{ hours} \xrightarrow{-5\text{ hours}} 1015\text{ hours} = 10:15\text{ a.m.}$

Ans. The required time 5 hours 15 minutes before 3:30 p.m. is 10:15 a.m.

D. Solve these word problems: -

1. Given temperature in the morning =  $18.5^{\circ}\text{C}$   
 Temperature rises about =  $5.7^{\circ}\text{C}$  by noon.

$$\begin{aligned}\text{Required temperature at noon} &= 18.5^{\circ}\text{C} + 5.7^{\circ}\text{C} \\ &= 24.2^{\circ}\text{C}\end{aligned}$$

Ans. The required temperature would be  $24.2^{\circ}\text{C}$  at noon.

2. The duration of playing football in the morning  
 = 1 hour 10 minutes  
 =  $(60 + 10)$  minutes  
 = 70 minutes.

The duration of playing football in the evening  
 = 55 minutes.

$$\begin{aligned}\text{Required longer duration} &= 70 \text{ mins} - 55 \text{ mins} \\ &= 15 \text{ mins}.\end{aligned}$$

Ans. Jyoti played 15 mins <sup>longer</sup> in the morning than evening.